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Synchronization and communication in the T3E multiprocessor
SL Scott - Proceedings of the seventh international conference on ... , 1996 - portal.acm.org
... store-conditional implementations place restrictions on the types of operations that can be
performed in the **critical section** (eg: no ... set to **interrupt** on arrival, never **interrupt** (in which case
messages are detected via polling), or **interrupt** only when some **threshold** num- ber ...
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[PDF] from psu.edu

Events: a structuring mechanism for a real-time runtime system
M Donner, D Jameson ... - Real-Time Systems ... , 2002 - ieeexplore.ieee.org
... [5]. Events may be internal or external. External events might be: Timer t has ticked. Sensor s
has passed **threshold** B. 1/0 **interrupt** i has arrived. An internal event may be, for example: Variable
v has changed. Boolean B has become false. Strip S has finished execution. ...
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The cyclic executive model and Ada
TP Baker ... - Real-Time Systems, 1989 - Springer
... sharing, typically implemented by critical sec- tions, can be handled simply by defining each **critical
section** as an ... to log overruns, and if the number of consecutive overruns exceeds some preset
threshold, a fault ... A hardware **interrupt** is handled as a special case of a rendezvous ...
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[PDF] Preemptible Linux: A reality check
K Morgan - MontaVista Software, 2001 - openmolf.opengroup.org
... cases, the locking function acts as a control on reentrancy to a **critical section** of kernel ... **interrupt**
management requests from Linux, and thereby reduce the worst case **interrupt** off timings ... load
on non-preemptible Linux causes user process delays that exceed the **threshold** of the ...
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Mutual exclusion of locally byzantine processes
J Beauquier - Distributed Computing Systems in the 1990s, ... , 2002 - ieeexplore.ieee.org
... The solution consists in a main program and two **interrupt** - handlers, that are similar for all GI's ...
used to obtain a consensus among the GIs, on what GI to allow to enter its **critical section**. ... to
provide to each GI an infinite sequence of shadows (in the sense of **threshold** schemes, Cf ...
Library Search

Isochronous scheduling and its application to traffic control
M Iwasaki, T Tarouchi, M Nakahara... - Real-Time Systems ... , 2002 - ieeexplore.ieee.org
... the current thread is in a non- preemptable state when a timer **interrupt** occurs, the ... Therefore,
to prevent unexpected termination inside the preemptable **critical section**, each kernel thread
issues a ... a physical segment is suppressed so that it does not exceed a certain **threshold**. ...
Cited by 18 - Related articles - All 8 versions

Approximate analysis of distributed semi-hard real-time systems
D Martineau - Automatic Control, IEEE Transactions on, 2002 - ieeexplore.ieee.org
... and S. B. Gershwin, "The uncertainty **threshold** principle: Some fundamental limitations of optimal
decision ... does not allow preemption, for example, a process running into a **critical section** must
complete ... A process with a higher priority cannot **interrupt** the execution of a process ...
Cited by 7 - Related articles - All 3 versions

Mostly lock-free malloc
D Dice, - ... of the 3rd international symposium on ... , 2002 - portal.acm.org
... Critically, the notification routine executes before control could pass back into an **interrupted critical
section**. ... A restartable **critical section** can traverse such a list without any locking. ... if the proportion
of free blocks to in-use blocks in the local heap passes the emptiness **threshold**. ...
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[PDF] from comcast.net

Rate-monotonic analysis for real-time industrial computing
MH Klein, JP Lehoczky ... - Computer, 2002 - ieeexplore.ieee.org
... For example, T, is considered a single task but is composed of two sys- tem subtasks: (1) an
interrupt service routine and (2) servo control, which executes only ... In oth- er words, a **threshold**
U; exists such that, if the utilization of a task set con- sisting of n periodic tasks, U = C,IT ...
Cited by 80 - Related articles - BL Direct - All 7 versions

[PDF] from ufc.br

Implementing MPI under AP/Linux
D Sitsky, P Mackerras, A Tridgell... - MPI Developer's ... , 2002 - ieeexplore.ieee.org
... 0 The user should be: able to select whether polling andlhx **interrupt** techniques are used to detect
the ar ... size will be sent using the in-place method, while those greater than the **threshold** size
are ... If a **critical section** is **interrupted** by a signal, the han- dler return!; immediately. ...
Cited by 6 - Related articles - All 5 versions

[PDF] from psu.edu

Localizing failures in distributed synchronization
M Choy... - Parallel and Distributed Systems, IEEE ..., 2002 - ieeexplore.ieee.org
... Fig. 1. It provides a procedure Rueald, and the underlying algorithm provides an
interrupt handler. A process ... The execution of these processes is interrupted and
each of them executes an interrupt handler. Upon completion of ...
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[PDF] Implementation of μITRON Embedded Operating System Specification on top of L4   [PDF] from psu.edu
Microkernel
A Bursev - 2004 - Citeseer
... Interrupt and exception handler procedures provide also a compatibility layer required to
implement L4 interrupt and exception protocols. 2.4. ... threshold task ... avoids priority inversions and
limits worst-case response latency time to the time required to complete a critical section. ...
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Sequoia: A fault-tolerant tightly coupled multiprocessor for transaction processing
PA Bernstein - COMPUTER, 1988 - computer.org
... blocks, the PE uses the following mutual exclusion protocol: Get test-and-set lock Invalidate
non-dirty cache ***Critical Section Code *** Flush ... This activity could easily be automated by
establishing a threshold for waiting time, above which repartitioning should be automatically ...
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[PDF] Computer Architecture Technical Report   [PDF] from psu.edu
O Synchronization - 2004 - Citeseer
... for such cases, simply by adjusting the frequencies (this would become a threshold value for
the ... to enter a critical section while another process is cur- rently inside a critical section? ... Short
instructions, like interrupt calls or similar constructs for entering another code part, gets ...
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G Siebert... - 2004 - tu-chemnitz.de
... such cases, simply by adjusting the frequencies (this would become a threshold value for ... to en-
ter their critical sections while another active process is currently inside a critical section? ... Short
instructions, like interrupt calls or similar constructs for entering another code part, get ...
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[BOOK] Formal methods and their role in the certification of critical systems   [PDF] from psu.edu
J Rushby - 1995 - Citeseer
... (Dissimilar designs cannot be expected to produce bit-for-bit identical behavior, so threshold
voting has to be used.) Like other problems involving synchronization and coordination of
concurrently active distributed components, redundancy management(whether of identical or ...
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Lock improvement technique for release consistency in distributed shared memory systems   [PDF] from psu.edu
SS Fu... - ... Frontiers' 96', Sixth Symposium on the, 2002 - ieeexplore.ieee.org
... After the application program finishes with the critical section, it calls Lock-release(Z) to release ...
case of the recursion is encountered when the partition size reaches a threshold of 512 ... tion by
using the Berkeley sockets interface and employs a SIGIO signal (interrupt) handler to ...
Cited by 1 - Related articles - All 11 versions

Fault-tolerant naming and mutual exclusion
J Beauquier - Semantics of Systems of Concurrent Processes, 1990 - Springer
... are given in annexe 2. The solution consists in a main program and two interrupt-handlers, that ...
a consensus among the Gi's, on the particular Gj that should be allowed to enter its critical section. ...
to each Gi an infinite sequence of shadows (in the sense of threshold schemes, Cf. ...
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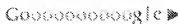Two distributed problems involving involving byzantine processes* 1
J Beauquier - Theoretical Computer Science, 1992 - Elsevier
... in =true co nil; G, already made an svc for entering without exiting threshold s, n ... lj(s); using
Lagrange's interpolation polynomials in := true; jumpto(s); (enter the critical section end;
Interrupthandler ... end; 182 J Beauquier Recall that it is assumed that the two interrupt handlers ...
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Optimal Polling for Latency-Throughput Tradeoffs in Queue-Based Network Interfaces for Clusters   [PDF] from binghamton.edu
D Ponomaev, K Ghose ... - Euro-Par 2001 Parallel Processing, 2001 - Springer
... wait is one of a longer duration, the process might find its critical section available at ... time, such
service does not offer any improvement compared to a traditional interrupt-based mechanism ...
a minimum or its deviation from the minimum does not exceed a predefined threshold. ...
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